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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | Application Number | 10/576,274 |
| | Filing Date | April 17, 2006 |
| | First Named Inventor | Rehab Al-Jamal et al. |
| | Art Unit | 1644 |
| | Examiner Name | Maher M. Haddad |
| Sheet 1 of 2 | Attorney Docket Number | MUR-06-1101 |

| NON PATENT LITERATURE DOCUMENTS | | | |
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| | | Bongartz, T. et al., "Incidence and Mortality of Interstitial Lung Disease in Rheumatoid Arthritis: a Population-Based Study," <u>Arthritis & Rheumatism</u> , June 2010, vol. 62, no. 6, pages 1583-1591. | |
| | | Chaouat, A. et al., "Pulmonary Hypertension: Basic Concepts for Practical Management," <u>European Respiratory Journal</u> , 2008, vol. 32, no. 5, pages 1371-1385. | |
| | | Crosby, L.M. et al., "Epithelial Repair Mechanisms in the Lung," <u>Am. J. Physiol. Lung Cell Mol. Physiol.</u> , June 2010, vol. 298, pages L715-L731. | |
| | | Dumin, J.A. et al., "Pro-Collagenase-1 (Matrix Metalloproteinase-1) Binds the $\alpha_2\beta_1$ Integrin upon Release from Keratinocytes Migrating on Type I Collagen," <u>The Journal of Biological Chemistry</u> , August 3, 2001, vol. 276, no. 31, pages 29368-29374. | |
| | | Festuccia, C. et al., "Bombesin-Dependent Pro-MMP-9 Activation in Prostatic Cancer Cells Requires β_1 Integrin Engagement," <u>Experimental Cell Research</u> , 2002, vol. 280, pages 1-11. | |
| | | Fischer, C. et al., "Lymphocyte-Endothelial Interactions in Inflamed Synovia: Involvement of Several Adhesion Molecules and Integrin Epitopes," <u>Scand. J. Immunol.</u> , 1993, vol. 38, no. 158, pages 158 to 166. | |
| | | Hung, W.W. et al., "Cognitive Decline among Patients with Chronic Obstructive Pulmonary Disease," <u>Am. J. Respir. Crit. Care Med.</u> , 2009, vol. 180, pages 134-137 (2009). | |
| | | Kozora, E. et al., "Cognitive Functioning in Patients with Chronic Obstructive Pulmonary Disease and Mild Hypoxemia Compared with Patients with Mild Alzheimer Disease and Normal Controls," <u>Neuropsychiatry, Neuropsychology, and Behavioral Neurology</u> , 1999, vol. 12, no. 3, pages 178-183. | |
| | | Levkau, B. et al., "Activation of Metalloproteinases and their Association with Integrins: an Auxiliary Apoptotic Pathway in Human Endothelial Cells," <u>Cell Death and Differentiation</u> , 2002, vol. 9, pages 1360-1367. | |
| | | Lim, S. et al., "Balance of Matrix Metalloprotease-9 and Tissue Inhibitor of Metalloprotease-1 from Alveolar Macrophages in Cigarette Smokers: Regulation by Interleukin-10," <u>American Journal of Respiratory and Critical Care Medicine</u> , 2000, vol. 162, pages 1355-1360. | |

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| | | | First Named inventor | Rehab Al-Jamal et al. | |
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NON PATENT LITERATURE DOCUMENTS

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| | | Lo Coco D. et al., "Increased Frequency of Restless Legs Syndrome in Chronic Obstructive Pulmonary Disease Patients," <u>Sleep Medicine</u> , 2009, vol. 10, pages 572-576. | |
| | | Luo, B.H. et al., "Allosteric β_1 Integrin Antibodies that Stabilize the Low Affinity State by Preventing the Swing-Out of the Hybrid Domain," <u>The Journal of Biological Chemistry</u> , June 25, 2004, vol. 279, no. 26, pages 27466-27471. | |
| | | Murphy, D.B et al., "Adverse Ventilatory Strategy Causes Pulmonary-to-Systemic Translocation of Endotoxin," <u>American Journal of Respiratory and Critical Care Medicine</u> , 2000, vol. 162, pages 27-33. | |
| | | Ortapamuk, H. et al., "Brain Perfusion Abnormalities in Chronic Obstructive Pulmonary Disease: Comparison with Cognitive Impairment," <u>Annals of Nuclear Medicine</u> , 2006, vol. 20, no. 2, pages 99-106. | |
| | | Saito, Y. et al., "Potentiation of Cell Invasion and Matrix Metalloproteinase Production by $\alpha\beta_1$ Integrin-Mediated Adhesion of Gastric Carcinoma Cells to Laminin-5," <u>Clin. Exp. Metastasis</u> , 2010, vol. 27, pages 197-205. | |
| | | Shapiro, S.D. et al., "Activation of the 92-kDa Gelatinase by Stromelysin and 4-Aminophenylmercuric Acetate," <u>The Journal of Biological Chemistry</u> , March 17, 1995, vol. 270, no. 11, pages 6351-6356. | |
| | | Tremblay, L. et al., "Injurious Ventilatory Strategies Increase Cytokines and c-fos m-RNA Expression in an Isolated Rat Lung Model," <u>J. Clin. Invest.</u> , March 1997, vol. 99, no. 5, pages 944-952. | |
| | | Tsuji, T. et al., "Regulation of Melanoma Cell Migration and Invasion by Laminin-5 and $\alpha\beta_1$ Integrin (VLA-3)," <u>Clinical & Experimental Metastasis</u> , 2002, vol. 19 pages 127-134. | |
| | | Wang, J. et al., "Neuroprotection by Inhibition of Matrix Metalloproteinases in a Mouse Model of Intracerebral Haemorrhage," <u>Brain</u> , 2005, vol. 128, pages 1622-1633. | |
| | | Zhao, B-Q. et al., "Role of Matrix Metalloproteinases in Delayed Cortical Responses after Stroke," <u>Nature Medicine</u> , April 2006, vol. 12, no. 4, pages 441-445. | |

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